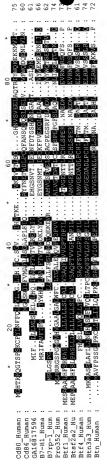
FIG. 1A

cagaaagaga cct	atatgat ca	aatacaga a	Met Ile	ttc ctc	ctg cta a Leu Leu N	atg 53 <u>Met</u>
ttg agc ctg ga Leu Ser Leu Gl	a ttg cag u Leu Gln	ctt cac ca Leu His Gl 15	ng ata gca In Ile Ala	a gct tta a Ala Leu 20	ttc aca (Phe Thr	gtg 101 Val
aca gtc cct as Thr Val Pro Ly 25	ag gaa ctg /s Glu Leu	tac ata at Tyr Ile Il 30	a gag cat Le Glu Hi:	t ggc agc s Gly Ser 35	aat gtg Asn Val	acc 149 Thr
ctg gaa tgc aa Leu Glu Cys Aa 40	ac ttt gac sn Phe Asp 45	act gga ac Thr Gly Se	gt cat gte er His Va 5	T Wall Dea	gga gca Gly Ala	ata 197 Ile 55
aca gcc agt to Thr Ala Ser L	tg caa aag eu Gln Lys 60	gtg gaa aa Val Glu As	at gat ac sn Asp Th 65	a tcc cca r Ser Pro	cac cgt His Arg 70	gaa 245 Glu
aga gcc act t Arg Ala Thr L	tg ctg gag eu Leu Glu 75	Glu Gin Le	tg ccc ct eu Pro Le 80	a ggg aag u Gly Lys	gcc tcg Ala Ser 85	ttc 293 Phe
cac ata cct c His Ile Pro G 90	aa gtc caa ln Val Gln	gtg agg g Val Arg A 95	ac gaa gg sp Glu Gl	a cag tac y Gln Tyr 100	caa tgc Gln Cys	ata 341 Ile
atc atc tat g Ile Ile Tyr G 105	gg gtc gcc ly Val Ala	tgg gac t Trp Asp T 110	ac aag ta yr Lys Ty	c ctg act vr Leu Thr 115	ctg aaa Leu Lys	gtc 389 Val
aaa gct tcc t Lys Ala Ser T 120	ac agg aaa yr Arg Lys 125	ata aac a Ile Asn T	ct cac at hr His Il 13	e Leu Lys.	gtt cca Val Pro	gaa 437 Glu 135
aca gat gag g Thr Asp Glu V	ta gag ctc al Glu Leu 140	acc tgc c Thr Cys G	ag gct ac In Ala Th 145	a ggt tat nr Gly Tyr	cct ctg Pro Leu 150	gca 485 Ala
gaa gta tcc t Glu Val Ser T 1	gg cca aac rp Pro Asn .55	Val Ser V	tt cct go /al Pro Al .60	cc aac acc la Asn Thr	agc cac Ser His 165	tcc 533 Ser
agg acc cct o Arg Thr Pro 0 170	gaa ggc ctc Glu Gly Leu	tac cag g Tyr Gln V 175	gtc acc ac	gt gtt ctg er Val Leu 180	cgc cta Arg Leu	aag 581 Lys
cca ccc cct (Pro Pro Pro (ggc aga aac Gly Arg Asn	ttc agc t Phe Ser 0	igt gtg t Cys Val Pi	tc tgg aat he Trp Asn 195	act cac Thr His	gtg 629 Val

FIG. 1B

Arg 200	Glu	Leu	Thr	Leu	205	Ser	11e	Map	Leu	caa Gln 210	001				Pro 215	677
agg Arg	acc Thr	cat His	cca Pro	act Thr 220	tgg Trp	ctg Leu	ctt Leu	cac His	att Ile 225	ttc Phe	atc Ile	ccc Pro	tcc Ser	tgc Cys 230	atc <u>Ile</u>	725
att Ile	gct Ala	ttc Phe	att Ile 235	ttc Phe	ata Ile	gcc Ala	aca Thr	gtg Val 240	ata Ile	gcc Ala	cta Leu	aga Arg	aaa Lys 245	caa Gln	ctc Leu	773
tgt Cys	caa Gln	aag Lys 250	Leu	tat Tyr	tct Ser	tca Ser	aaa Lys 255	ASP	aca Thr	aca Thr	aaa Lys	aga Arg 260		gtc Val	acc Thr	821
aca Thr	aca Thr 265	Lys	agg Arg	gaa Glu	gtg Val	aac Asn 270	Ser	gct Ala	atc Ile	tga	acc	tgtg	gtc	ttgg	gagcca	874
qqq	tgac	ctg	atat	gaca	tc t	aaag	aago	t to	tgga	ctct	gaa	caag	aat	tcgg	tggcct	934
															tctgaa	
															tggact	
															ccactg	
															aaaagg	
aat	tatt	tcc	cct	caagt	tt t	ctaa	agtga	at tt	cca							1209

FIG. 2A





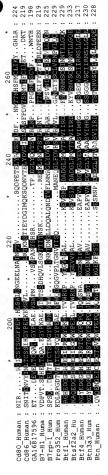


FIG. 2B

288 306 273 290 302 307 263 313 294	323 323 316 392 392 368	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
360 NSAI NSAI PER PER LOPERHSDS : LOCAL DEER : LOCAL DEER :	4 660 SGRHYWBVEVEN SGRHYWBVEVEN SGRHYWBVEVEN SGRHYWBVEVEN SGRHYWBVEN SGRHYWBV	540 THE PRINCE OF THE PRINCE
REGIONAL RESERVATIONS SOLUTIONS SOLU	400 * 440 * * 420 * * 440 * * * * * * * * * * * * * * *	* 540 MERGHING CPRS. AMEGSHINGENV
340 CONTYNERS BISINE. CONTYNERS BISINE. DO THE SERVICE BISINE. CONTYNERS BISINE. CON	* 44 BREBOPCVIG	GDVSEYNMR GENERATION GENERALI
KRPNSVEGEE TALLER, OLGO FELENCE OLGO FELE	420 SEMERGEYRORWEN PERSENT SEMENT OF THE SERVENT	520 RVGVELDYEA KVGIELDYEA RVGIELDYEZ
320	420 BERREWRGEYROR SERCENORIEDER BERSON	500 * 520 SSPERIBERESICRVGVELDYE LIEBERWGIFLLOYE LIEBERWGIFLLOYE
EVICOLITYCE THE CONTROL THE CO	as ligatha	500 NOTRALISEE NOTRALIEER
300 WATTLEWNS W. ITANIER IP NERTHEWN CEKNA WEIT CEKNA WEIT CENTA WEIT CENTA WEIT WINDLAGT WILDLAGT WILTLAGT WILTLAG	* 400 TELHAADWUDSDT GALEKPADWUDSDT	* CONTROL CONT
* PEDMILPS PEDMILPS PEDMILPS PEDMILS P	EWK	480 Geviete Bi
280 SERVICE SE	* 380 * * WEBSKTSSCDKSDTCF KEDDGGEIA TFILHAADWW WRE CYMARGEKSLAYHEWRAALFKPADT	* 480 * 500 * 520 * 540 ** MATHORY CREEK LEASE OF THE PROPERTY OF THE PROPERY
Cd80 Human : Cd86 Human : Cd86 Human : GA.16817596 : Cd872p-1 Huma : Br.252 Hum : Br.161 Human : Br.461 Human : Br.161 Human : Br.	Cd80_Human : Cd86_Human : Cd86_Human : GA166_Human : B7_Pl_Huma : B7_Pl_Hum : Pro352_Hum : B41_Human : B41_Human : B41_A33_Hum : B41_A33_Hum : B41_A33_Hum : B41_Amman : B41_Amman : B41_Amman : B41_Amman : B41_Amman : B41_A33_Hum : B41_Amman : B41	Cd80_Human Cd86_Human GA16817596 Dr-H1 Huma B7rp-11 Huma Pro352_Hum Pro352_Hum Bf1_Human Bt4_Human Bt4_Human Bt4_Human Bt6_Human Bt6_Human

FIG. 2C

	ı	ı	ı	ı	ı	ı	ı	523	ı	584	526
	:	:	:	:	:	:	:	:	:	ARTEALY	
										SATTNONHKLO	
079										PAHPGAEVSP	PTQPSQGAP
k										POAEVTSLLL	DADTLHSKLI
009								SL		PGLANESGE	PMGEESAPR
								GLKLHRVGTHQ		VPDHSLETPLT	I <mark>W</mark> SSGKKPI <mark>TICE</mark> IADGPERVTVIANAQDLSKEIPLSPMGEESAPRDADTLHSKLIPTQPSQGAP
280								GASGVMVPEE		TEVESSPOPDL	GPERVTVIAN
*								SPETITE ALT		PTALLECTIPE	KKPI TIGEIAE
260								FERE. GSDI		VERILTLE	FECHWSSG
	Cd80 Human :	Cd86_Human :	GA16817596 :	B7-H1 Huma :	B7rp-1 Hum :	Pro352 Hum :	Btfl Human :	Btsf2a2 Hu : FBR GSDDSPIFICEALTGASGVMVPEEGLKLHRVGTHQSL	Btf4 Human :	Btn3a3 Hum : VERELEPTALTIEPTALTICEPTALTICEIPKEVESSPDPDLVPDHSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNHKLQARTEALY : 584	Btn_Human : FE

ď.

FIG. 3A

ataagaagct gaattaaggt gatggcagtg gggtggaaga aaggagagcc accatgcaaa 60 aagtatccag gagggagaat taacaggact aggggatggg ccatatttgc aagatgagaa 120 atgcagaggt ctaagattct agctnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn 180 catattttcc ccagaggagg attagtagga aaggaagctg ctggttggaa agtatcttta 360 tagcagtgtc tgttcctcgg tttgctcaag gggacagtgt gccaggaaag tccccgtgga 420 agggcaagga agaaggggaa gttaaagcca gtggcaggtg atccaagaat cttttctgtt 480 gctagageta tgttacatgc tgtcctttca tgctctaaaa ataagagtgc tggcaagtgc 540 caggeetgtt ggtgeagett aagatgatae etttettgga tatatatgea tetgaataag 600 gaaggctate ttetggteaa getaaggtat geeatgagea ttteeetgtg gaaageactt 660 aattotgtto coagttgtta ootgotgtaa gatotooott totaaaataa aaacaagaat 720 acageteact gaggacetta cattteeete tagetactga eteatttete tteteetttt 780 tatagcactc ttcttgagag agttgcctat atttgttgcc acatctttac ccattctctt 840 ttgaacctat tcaagctttc atctgtacaa aactcactga tactgtgctt gtcaggatca 900 tocatgacet ceatactget aaatgeaact etcaagagta tttggeteta etgateacte 960 ctttgtagca ctgtgtttta aaatataggt tttattatta tttaggtatg gtgaggccaa 1020 tatatcagga aatgactgtc gttgaaaaaa gtatgttgta ctcacagatc ccaagagaag 1080 gggggcacac catgccacaa agggccacat ggggaagcac cagggtcagc caggaggtgg 1140 gtgggggtg cgcaagatct ttattgtggt ttcaacagga agaaatgggt gaagcagggt 1200 gagtggattt aggattagct gatataaata atttcagcag gctctggggc ataggggctg 1260 tecetagtet tetggtaett ggeeetgggg tgattaagge agttgeatag tgttgggaat 1320 gtgaaagccc ccaataaatg aggcagttgt gggtatgggc tctgaaatgg gttggtttgc 1380 atttgaaagg tgtgctcatg ggcaagtggt ttactctctc ttagaggtta gaattggcta 1440 accetgggag eggeagtece tteagggtea geaaggeeee aggtgteaaa geateagaat 1500 acagaaaata aaatgcatgg ataatacaca ctgccatttg cctttgtacc cttcctttca 1560 atottotetg etggtgaceg etetteacaa agatetataa atgttggaat acceeatgte 1620

FIG. 3B

tragtecttg ggractetet ttectatete tetgtaggtg atgtaatgea gatatecatg 1680 actttaaatc tttaacactt ctgcattgat gactcctaaa tttacatctc taccccaact 1740 gcctactaaa cacctccact tggctatcta ataggcattt caaaccaaat ctacaacaaa 1800 cgtaactctt tttccccttc cttaatttgc ttctccccca gccttctcca ttttaataaa 1860 cagcatetee attgeettag tgaetcaage eccaaactta ggaattttee cagattteee 1920 tettttete aaactatata tetageetgt cageagttee etteaggtet tttttennnn 1980 припримента примента приприпри приприпри приприпри приприприпри приприприпри приприприпри 2220 плипипипип плипипипип плипипипи плипипипи плипипипи плипипипи 2700 плиппиппип плиппиппип плиппиппи плиппиппи плиппиппи плиппиппи 2760 припирителя принимент принимент принимент принимент принимент за водината принимент пр

FIG. 3C

nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3300
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3360
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	ttgtgtttta	3420
aatatatata	cacacttaga	cacatataac	cctctttcgt	atatcaatta	tactttaata	3480
aagctgttgn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnetegeca	3540
acagaccact	teteaccect	actageceet	ctactctaag	ctatcagcat	ttctgcaaac	3600
acatteetaa	ccgatctcac	tgcttgtaat	cttgccagca	acctctccct	ctcagcaata	3660
gtctattgcc	tacaccaaag	cttagttgtc	tcttaatgat	gtaaatgagg	ttctatcatt	3720
ctcctgaccc	aaaccctcca	ctgcttttca	teacactcag	agcagetetg	ctgttgcctg	3780
atttagatgt	atggctccaa	cagatttccc	ctgaagaaat	gattccatgg	ctgataaaag	3840
ttggaaagcc	tcctcagttt	cagaccatta	tcagattagc	tgtgtgctct	gtecetttee	3900
tcaaccataa	gaagtccatg	gataaagaaa	gcttcagagt	aaaggagaaa	gcatgggagg	3960
tacagcagga	ccaaggtggg	gcattcgcag	cecceaecet	catcagagcc	agttccctac	4020
tctccctgtc	taaacctctt	agtaagaggt	agttcaagag	aggggcaaac	tcaattccag	4080
cactcaaaag	cacttgacta	ctttgctcag	tcaactagca	agtatttatt	gagaatgtag	4140
ctctgttcta	tggagtctta	ttttcaagtg	tcagactccc	agacatccag	tccaggtaaa	4200
gaagatggtg	tccattattc	atttgacaaa	caaagttggg	gttcaagggc	cagctattga	4260
aaaaagctat	ggaaagcttc	atgagacgtg	caggtaactg	ccaatatgtg	tggttcacaa	4320
ggactggttc	atattcagaa	acggccatta	gaaaaggaag	aagaacttct	catttggatt	4380
tataaagagt	gtcttgttta	ctcttaattt	atatcttctc	ttctccagga	aatcaaccta	4440
taacttctcc	teccagetee	actctaccat	ggtctgtcac	cttccccaaa	tgatttgtta	4500
ttcccctgtt	ttcaaaagtg	aacaaagaac	caaagaccca	gcaaagtttc	acaaggccct	4560
gagactttca	attgtctatt	tcagatcaaa	tacagaac a M	tg atc ttc et Ile Phe	ctc ctg cta Leu Leu Leu	4616 6
atg ttg ago Met Leu Sei	c ctg gaa ti r Leu Glu Le	tg cag ctt eu Gln Leu	cac cag ata His Gln Ile	gca ggtaag Ala	aaag	4662 18
gacaaaggga	gaggcttaag	aaagaagagc	aggtggtggt	teetageeaa	agccaaaaat	4722
~~~~~tataa	coctoraget	gagggtttc	tttgagagga	cotatoattt	ctgggctatt	4782

#### FIG. 3D

ccaagcacca caaaaaaaaa aagagtcccc atggtggctt atacatgcca atgtccctat 4842 ctgacagaaa cggtgactga gaatattgct ccatctattc ccactatcca gtgagggtaa 4902 tgacaagaag acaggatcac tcagaccatg taaatctaaa ctgatacaag agggcagggg 4962 ttgagttccc ttaaaggtga gatgccaagc agctgtcccc ttcctttctq qcagggagag 5022 taaggagaca atggccaggg aacaccgtta ctctaaagat aatgtcttga agacattctg 5082 catattatta gttgtttctg tgagtttctt ttttgaaaag caacaatagc agccgttggt 5142 cattcatacc ttaatgtggt ttactgagtc ttcctaaaac ccaaatgaac aatgaacctt 5202 aaggctatcc ctttggactt gaagaaagga cttctattgg aggatgaggg tgagcagaaa 5262 gaaaagcagt ttcacagttg gttgttctcc tggggaaggt agttcagacc attcgagggt 5322 gtagttagaa ccatgagtgc actattttgg atgaacacca ggagctaaga gagtaacata 5382 gaggtgtgga cagaggatta agtcctcaag acaatagccc cagccccatg ggaaatcatc 5442 tttctgctca tgattgagaa ataatggctc ccttggcact tgataacctt tcgaagagct 5502 ttctcctccc tactagetgg ttccagatca ctcttcaccc agtcacattc ctctcactca 5562 cttgagctgc ccagcctggt ctggcactag agacatgcac ttggggccct cctcaaagga 5622 agaccetgag atattetget tacttetact etgeteetge etgeagggee agetaaagga 5682 acttttcatg ttttctttgc aaggaaccct gcctggctgg cattttagag acaagcaaaa 5742 ggggcaataa cttccttgct acaaaacagc ttcaagtttc catagagtga taagggaaat 5802 gagggccaaa agacactgtt ceceatectg tggcaggact gggggcttca ggagaaaact 5862 tggggaatgt gtaacctctg tgggtttgta gcttaaaaac actgagatcc tgggtttct 5922 gtctttgttt tttgcctttt ctcttaggaa aggagtgagc tagggtgaca aggggcaaca 5982 ttttttatcc ctcattggct ctttctacag aggaaggatc ttttcttcta agataatcag 6042 cacaagacaa tgaagatagg cactagctcc cagttaggta tactaatggg gcaaaaggaa 6102 nnnnnnnnn nnnnnnnnn nnnnnnnnn nnattttgca ggtgagggaa ctagaactca 6222 gaaaaggtac ttaatttccc caagattaca tagttattag gtgacaccgg caagatttca 6282 acaaaqctaa tgtcctttct actttactgt gctaccatga tgatggtaat caaaaatggc 6342 agacaaccca taaatcttcc aactttggaa taggtttttg cactgaagtc tgaatatgga 6402

# FIG. 3E

tacgtattga	atgtttattc	tggatattca	cagaatcaaa	aaatatgtgt	aatgaattat	0402
gttgctgaat	taactgaaag	gaaagtaaaa	atgtagcgct	ttctcatttt	cttcacgaat	6522
ttggaattct	tttctgcttt	ccactatgca	gataacatca	gttcagacaa	atattaaata	6582
cctacctaaa	ttagaatgcc	ttctcctcat	gggattttt	taaaatcttg	tcatttcatg	6642
tetetttaat	taaagagttt	tgatttcaga	ggagggtacc	tgcaaaagaa	aacaacaaaa	6702
aaactaaagg	atctgagaaa	taattagtgt	ttacttctgg	ggaggggagg	aggtctggga	6762
tgggggtaaa	aaggatagtc	ttatctatta	tgtatattca	ggtttttgtt	ttttacaaga	6822
agcatgtatt	aggnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnca	agaaatttct	6882
catataaaaa	tatgaaagta	atcagactgc	aacactcagt	gcctgagaca	gagctacagc	6942
tatcagggtg	tccagacaga	cagaagatta	cattttcttc	cttgctcctt	gtacagecee	7002
agacctgcat	gcttcattga	aaagaaaaga	agatacetga	attaaatcaa	tgtgatgctt	7062
agtaccctat	cagtgcacat	ttettttenn	nnnnnnnnn	nnnnnnnnn	cacttnnnnn	7122
חחחחחחחחחח	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	7182
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	7242
תחתתחתחתת	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	7302
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	7362
תתתתתתתתת	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnca	7422
cttatggcgg	tattctcagt	cattacaaat	aaataaaaac	aatccatatg	ccctggagaa	7482
tttgattcca	ggagtaggtc	tagaagaact	tcaactggag	aatggataga	gaaatcatgg	7542
tatatttgca	gnnnnnnnn	nnnnnnnnn	nnngatagca	tgtgaataaa	ttaattacaa	7602
aaacatatga	ctacatctat	tattatatag	catgtagata	aattacaaaa	acatgtaact	7662
acatctatga	atcttagagc	ataatattga	gnnnnnnnn	nnnnnnnnn	nnnnnnggcc	7722
agaagataac	acatagcaca	atgtcctttt	cataaataaa	tatattgctt	aagcatacct	7782
tatatataga	agataaagct	taaaaagtaa	agaagag			7819

# FIG. 4

attatcactt	atgagggtgn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	60
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	120
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnetgee	180
ctttatttt	tcatgaaaga	aattgctgaa	gaggactaaa	agaagtttta	gtaagcattc	240
aataaatgta	tgttctttat	agtttccaaa	tcagcaaata	tagacatect	gcatttttaa	300
ggagatttat	atattttatt	ggacatgctg	taatttattt	aaccacttcc	ctgttggtag	360
acattatttc	cattttcttc	tgctagatta	atgcttgaaa	aaaatgtgtg	cctcctaaag	420
actgtgatga	aagttgcctc	tgaataaaac	tcaaacaaat	cattaatcat	taactctttc	480
cttacttgta	tgctctttgg	atgetetact	gtgttatcta	taaaataaag	tttgaagtga	540
aaaattaggg	taaaacattt	tatatcattt	ttaaaggata	tatacatgga	tgtacttaca	600
tatgcatgtt	taaatttata	taccataaca	tttatttctt	tttttaaaaa		650

#### FIG. 5A

tatatttgtt ttttttctta catttttatt tcaaaatcta aggacatctt ataacccaga 60 aatatttttt atacettgte atgtettaga ggaaagagee acceeagtet tittteattg 120 atgtttttct tctctcttcg tactccagag gtagatgaaa accagagggc cacaatgacc 180 atggtgatgc ctgaggtcat tctggggcac agacctcagc ctaggttact ccacttcgcc 240 tatctttaga tccaaaacta ccctgctgac tgctgagata aacaaaggag aataatcagg 300 ttggggaaag gatttctatg cgaagacatg tctccatgca gtcctcctac actgagcaga 360 gcatgagtca ggtgcttaga gcaggatttt gtcctaaacc aggaacttca gagttttctg 420 aagaatgtgg ctatgtaaag cacccccca ccccaccctt acttctcaag tacattacgt 480 ggcaagtotg aaaaaactta cacttotgtt gttaaatgtg ggggataaaa tataaactta 540 gtttcaagag gaagctatct tgggaggtaa tgcaaataat tcgttgtgtg tttcctgaat 600 aagtgacagg tgctgactac cattgatgct tcattgcaat aaaatgcaaa gctcccccaa 660 gaatttttga aatgcatcaa gctaggtgtt ctaatctagc aaaaggacct gcatacatga 720 atttttcatg cttttgccaa gtcttttgcc ctttagttta gttaagggcc ccacatgaat 780 ggaaagcctg tgttgtcagc ttaattttgt agttgtggaa accttccagt tttctccttt 840 gtctaatacc ttcaggagtt caatcctagg ttgaagctta atttaataac catgtggcat 900 ctcatggatg tagtgtacac atgccagtgg atatatagtc ataactgcag tcattggtag 1020 cacagaaata aatgtgcatt gaagacacag agannnnnnn nnnnnnnnn nnnnnnnnn 1080 плиппипипи приппипипи приппипипи приппипипи приппипипи приппипипи 1140 gctagcccag tgtctgactt actgtgttta agaaatatca actattacgc tacttcccag 1260 tgacagtcca aatgcagacc agtgttataa ctctacnnnn nnnnnnnnnn nnnnnnnnn 1320 применения gtaaaagacg cttgcacgtg caaatgttac tttgtgtaac tnnnnnnnn nnnnnnnnn 1500 

#### FIG. 5B

tgggcttgag aaaaaacctc ttcatagaat tgtttgcatc agtgtcttga ttgcctctgt 1740 aacttacaat aagcaagaat gtttcaggat ttcaaaaaatc tattgcattg cctaaacctc 1800 ttattttgta tggagtaatc aagetcaaag tttgcatgtc ttagaaactt tacttggggc 1860 aaaattagac caagtaacaa ttaatcttct aggtattctg agctattcag acatatgatt 1920 catgtttgct aattgctctt ttctcttgta aatattagct gaaaaatgtc acctgtctga 1980 caagtagcat attttatgcc tatcactcct ggcacgcatt cttacaaggc agacaggaaa 2040 aataggaaga aaatggactt ttatcaaagg cccaggcagt aaagagggga gttctgctgt 2100 aagctaaggg gagttccaga ggaagttata ggcgttccct ttcttatgac aagaaagcat 2160 agtgcagtaa ataaatttgc taaatagatt caacagtctc tacccaaagt catctattta 2220 attettqttg ttatgcagac tcagcaacta acctteettg taageeccat tttetteect 2280 gtttcctgtt tatcaaatgt aattaaacaa gagaagtatt atagaagagt aaaagtagta 2340 ggtaattott gaacttggca tatgattact acatatttga tgaatagttg aatattatto 2400 ttcaaggaca gattggattt ggtatcaggt ggctctgcat taagttataa gggacttaat 2460 aactcaagta tttaaggacg gcttccatca taaagggatc tgcccttaag agggtcccat 2520 tatggagatt ctgaggtgag agctattcca agtgtgcagt ggattaaaat aaaagaatca 2580 tacaggaaat ctctttttac atgccttatt ccagggtctt tgcaacctgg cacagcaagt 2640 gcagatatga ttagcattgt tttacacatg tacactcacc ttatagccct gcccctgtgc 2700 ccctcctgca caaaagaatg ctgggcacac gtgaactcct ctctgtagaa aggcacatta 2760 atgttctagc catggttaaa acagggatag aggcaagcca aaaatgtcgg tcatttgaaa 2820 taaatctcaa gtttgtgcat atcactatca agtgtgctgt gtggcaatta agaatgccaa 2880 tttgtgtgat cacaggcaag ttgcagtttg atgaaaggaa agcagaggtg aatatataac 2940 cagggtcate etttettet ecetetete etttetgtca tttatttgee aagetettaa 3000 ctagaacttg ctatgtgcta ggtactggat atatcaaagc aaactcagcc tggtctttgc 3060 cttcaaagat ttgcaggata gtgggaagaa aaacttgaat cagaggacat ctgcagtggg 3120 aatcattcaa gcagcagaaa acccaaaagt tacttatact gtgaaatctg atcagagaat 3180 ggactgtcct ggttagtaaa atatcctgga ggataaagat tggccatgca ttccacatat 3240

# FIG. 5C

gaattaccac	tttcccaaga	attaaaacat	ggtacgaaag	aaayyiiiiiiiii		3300
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3360
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3420
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3480
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnna	aacaacttct	3540
ggaatagcta	atgcttagaa	gcagctccca	aatatttgtn	nnnnnnnnn	nnnnnnnn	3600
nnnnnnnn	nnnnnnnnn	gcaagctcta	ctgaacataa	tttgatctaa	tcttctgtga	3660
ttattcagaa	actacttcaa	gattttccta	tacctccatc	ataatgaata	cccattcatt	3720
aatgatggaa	gcagcctaat	tttgtcattt	ttcacacttt	attgatgtaa	cactaccttt	3780
actagtttgg	ccactcctta	tgctttttt	atagaactat	ttagatcaat	tcaactttta	3840
aaaaataaag	ccacataccc	ctgtggtaga	tgaaaaacaa	gtatcatttg	cactggtaaa	3900
tagagaatag	gaagaaaaat	aaatgcagtg	aaaataaagc	agtgttatca	aatcctaccc	3960
agatactgtt	atctacccgg	aagetteetg	tttgattaaa	aggaaaaata	gccagtgtta	4020
gaggtgtgga	agtctagttg	aaattatatg	caattgaagg	attaaaatag	aattgaaaag	4080
ggaataaatt	cctctctgaa	taatttaact	ccctttaggc	tttgattctg	cctcatctaa	4140
aatcatctta	catacttcta	gtggcgtgtc	cctcacattt	tggtaaactc	tgnnnnnnn	4200
תתתתתתתתת	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4260
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4320
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4380
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnccat	ttttcctttc	cctttattgt	4440
cagaaaatag	aaagcatcta	cagtgggctt	gtatgatgtg	gtggttagaa	atacctgatc	4500
tgattnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	4560
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4620
nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	4680
nnaccatcac	tggtgagagg	aagtgatacc	tggcacaaaa	atatatggat	taatcaatat	4740
ggattgaggg	aaacaaacct	ggagaatagg	atgtgaaggt	atttaagtaa	catgagetea	4800
gacettgatg	gtagggaagt	cgaaaggaag	cattttqttc	ttatatgaca	gatgacctgg	4860

# FIG. 5D

aatgactgca	gggcttgg	gg ggtca	gggac t	ggaggtgg	g agaggcct	ct gagag	gcaagc	4920
agtgctgtcc	accagaag	ct cttgc	tgggg t	geccagag	a ggagcaaa	agg gcagt	caget	4980
gcacaggagg	gaatgttt	gg aggag	agagc c	acctcaga	t cagegggt	ca agaat	cccac	5040
tettgeecag	atggatgg	gg caaag	gagaa a	aggatto	g ccacggg	aat gtcca	agataa	5100
gacaggtgcc	ttttggaa	aa tgggg	gtgag a	tgggtctc	a ggttacad	ett egtaa	agaact	5160
ggaatgtaaa	gtaaaggc	ag acaat	gacaa a	atatcttg	t tttcttt	tca gct t Ala 1	ta Leu	5216 20
ttc aca gto Phe Thr Val	g aca gtc L Thr Val	cct aag Pro Lys	gaa ct Glu Le	g tac at u Tyr Il	a ata gag e Ile Glu	cat ggc His Gly	agc Ser	5264 36
aat gtg aco Asn Val Thi	c ctg gaa c Leu Glu	tgc aac Cys Asn	ttt ga Phe As	c act gg p Thr Gl	a agt cat y Ser His	gtg aac Val Asn	ctt Leu	5312 52
gga gca ata Gly Ala Ile	a aca gcc e Thr Ala	agt ttg Ser Leu	caa aa Gln Ly	g gtg ga s Val Gl	a aat gat u Asn Asp	aca tcc Thr Ser	cca Pro	5360 68
cac cgt gaa His Arg Glu	a aga gcc ı Arg Ala	act ttg Thr Leu	ctg ga Leu Gl	g gag ca u Glu Gl	g ctg ccc n Leu Pro	cta ggg Leu Gly	aag Lys	5408 84
gcc tcg tto Ala Ser Pho	c cac ata e His Ile	cct caa Pro Gln	gtc ca Val Gl	a gtg ag n Val Ar	g gac gaa g Asp Glu	gga cag Gly Gln	tac Tyr	5456 100
caa tgc ata Gln Cys Ile	a atc atc e Ile Ile	tat ggg Tyr Gly	gtc gc Val Al	c tgg ga a Trp As	c tac aag p Tyr Lys	tac ctg Tyr Leu	act Thr	5504 116
ctg aaa gte Leu Lys Va	c aaa ggt l Lys	gagtggt	gtcaagg	act agaa	tccatg ga	agctctct		5556 120
ccaacagagg	atctgcaa	gt cacag	aaacc c	attaaagg	t agctcaa	gca aaaa	caagca	5616
ggctgctttt	aaggagac	ag ctatt	tcaga g	aaaatgaa	a gcatctg	ctc ggaa	ataatt	5676
tttgacatct	gagtacaa	ag cagco	gaagt a	caagtgaa	a gggggta	gga ccta	taggaa	5736
taaaatggga	ctggagga	ag ccagg	aaaat t	agtccctq	a aatgtgg	gag ggta	tgaaaa	5796
ataagctttg	cctaattc	ac aatto	tccca t	ggaacato	c ctgactt	gat tatt	aagata	5856
ctcttttca	atagttta	ta ccctg	aatcc a	gagtttt	a aaaccat	ggt ttgc	cgccca	5916
ttcatggatt	aaaatato	aa tttag	tgagt a	gcaaccaq	ga tgcacgt	ttc ccgc	ccttta	5976
aaaaataatg	tatagaag	ag aatag	acaga g	tagatcaç	ga cgatatc	aca gagt	aggact	6036
gagtactgta	aaactaat	tt ctgag	ggacg t	gtgtgtgt	g tgtgcgt	gtt gggt	catggt	6096
a+aaa++++	ttttctt	ac tttdd	atcat a	aaaaqtta	c aagtttg	gaa aaca	ctactc	6156

#### FIG. 5E

nnnnnnaga gteccatgaa gtetataget gtecetatte etetggatte agggatetet 6276 ccactccage acaattgaaa atctaaatat aaagagaate tteacaetet tgtttgttet 6336 agaaaaggtg atttgaggaa agacatataa caactataaa aaatagattt tgcttgttca 6396 ttggcttatg gtctccaggc ttgaatgctc tgagataaat gatgccaata tttctctggc 6456 ctcttcccat cccacgcatt ggacctcaga tggtctgtac tgtcttctag agggtttgtg 6516 ggttttggcc ccaaaaaacc attaaccttg gcagaaagtg tgtgacttta tgatctggta 6576 caaagaagga caaactagag ggactggaca tgaggatgaa tattgtgttc gcccttatnn 6636 применения принимания принимания принимания принимания принимания принимания 6756 tgttacaggg gcagtgacct cctcacacct caaccatcaa tgagtcacca ggaaagccat 6876 tagcctagat gtaactgttt totatottta ttgcatttoc tacatocagg cagcagctgg 6936 gaggaactct agaacactga agtttgtctg agttccctta atgtaaggct gtacattctc 6996 aggatgcctt gatgtactcg aatatctgca accetaaatc accacctctg tttttattga 7056 tetetatetg aatgetgtat taatgggeea ggeettetge ceattetete aaaetgagaa 7116 ctgtctctca ttcctgggga ggcaccctgc ctactcctta cctagatcag ggatttctca 7176 gttgtggaga gatttgttcc ttatagtgtt ggtcatcaaa ctgggatatt tggggattac 7236 aaagactttt caagggatgt atgggcacag gcagttttag gaagtgagtt cctagatcct 7296 catcttecce aaatactegt teccaaaatt gacgageetg acaatgtgea tgecaggeaa 7356 ggctcttggg gttcccctaa aacacttcct cttttaagcc taccactcac tcatcatgaa 7416 tatagtccat tgtcccaggg tgtaaaaccc tctatagtgt taaataaaag aatgattggg 7476 aacattgaca cctgatggaa ctgttatgac taaaaaccct tttgcaaata atgtggtatc 7536 taattttctg ctttcaacaa aattgaagga ggcccttata aagttaataa ctgataatca 7596 aaaatgagta atttttgcca tgtaaatcag gtcaaagaat gaaatggcat tgctgtaacg 7656 aaactgcttc cattcccatt gatttactca tacgaacaag attccttagc ctttataagc 7716 tacaaaaaaa tgaaaaatag aaatagaatt gaggctgaat tctattatat aaaatcattc 7776

# FIG. 5F

caaccatgtc	atatggttct	tcggattcat	gaataatttg	gaaaagagag	CCatattcat	7030
cttattaagg	gacacattcc	caataaattt	tcatctttca	tgtttaataa	ttatcaatat	7896
tcataacatt	ttacattttg	atcaaatatg	tgttaataat	aatagaaatn	nnnnnnnn	7956
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8016
nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8076
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8136
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8196
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8256
nnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8316
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnattag	atcttaatgc	agaacaccct	837€
gaacatttaa	agcttcatag	tcacaagaga	aaagttttca	tttcaatagc	tataaatatt	8436
ttgttgttgt	aaagacatat	aacgataatc	aatacaaaat	ctgtcaaaca	aaaatatgtt	8496
acattaagat	aaaattctgt	agggaaggtg	aaattggaag	tgagtttcaa	tgaatgaaaa	8556
gaaacaattt	agacagagaa	gnnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnncttagaa	8616
ggaattgaat	agattaggtt	ccttacccaa	aaagcctctg	ttatttgtct	tatttattta	8676
ttctcttttt	tccacattct	ccagtctcat	tcccctttt	taacacagga	aattattcca	8736
gcatgtttca	tacatattct	tttgtttgta	agagcttatt	taaaatatgt	aatattgttt	8796
tagatgcata	tattttttt	cttgtggaaa	ctatattgta	ctatatatat	atattttaga	8856
aatggacaca	ttannnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8916
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	8976
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	9036
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	9096
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	915
nnnnnnnnn	nnnnnnnnn	nnt				917

# FIG. 6A

tagatotoag otttottgag goagggagoo atatotgttt aattoactoa goatataotg	60
caaagaagca gnnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnn	120
gggagaagtg cagaataaat atacccaact ctttactatg tatagacatt atctaggtct	180
ttattttttt totottotta atotoaaaga aaacagagga aaggaggaag taaaaagtaa	240
atttttgcct gaagatgttt ggaaaaaata ccaaataaag tgagatagtg ggtaatctag	300
tgatttttat ttttccgtcc tctttctggc ctccaattgt gaaataattt atagcactgt	360
aagaaagaag ccacaaattg tggtagcttg gaccactgtt gaggnnnnnn nnnnnnnnn	420
תתתתתתתת תתתתתתתתת תתתתתתתתת תתתתתתתתת	480
nnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn	540
תתתתתתתת תתתתתתתתת התתתתתתתת התתתתתתתת התתתתתת	600
nnnnnnnnn nnnnnnnnn nnnnnnnnnn acttaatatt gatagtgata attttattca	660
tttcacatgg catgaagtac caagctctat aggaatcaga aaataaagtc ttatttcttt	720
TICITCICIA LIGICCA GCI CCC CAC Agg ana aca aca aca aca aca	770 131
aag gtt cca gaa aca gat gag gta gag ctc acc tgc cag gct aca ggt Lys Val Pro Glu Thr Asp Glu Val Glu Leu Thr Cys Gln Ala Thr Gly	818 147
tat cct ctg gca gaa gta tcc tgg cca aac gtc agc gtt cct gcc aac Tyr Pro Leu Ala Glu Val Ser Trp Pro Asn Val Ser Val Pro Ala Asn	866 163
acc agc cac tcc agg acc cct gaa ggc ctc tac cag gtc acc agt gtt Thr Ser His Ser Arg Thr Pro Glu Gly Leu Tyr Gln Val Thr Ser Val	914 179
ctg cgc cta aag cca ccc cct ggc aga aac ttc agc tgt gtg ttc tgg Leu Arg Leu Lys Pro Pro Pro Gly Arg Asn Phe Ser Cys Val Phe Trp	962 195
aat act cac gtg agg gaa ctt act ttg gcc agc att gac ctt caa agt Asn Thr His Val Arg Glu Leu Thr Leu Ala Ser Ile Asp Leu Gln Ser	1010 211
aagagctgcc cccacttcct aggtctatca gttagggttc agacaagaaa cagatggcat	1070
actcgagtga tttgaggaga gtgtaataaa gggactgttt acaaaggtgt gatcaccatt	1130
tggagaaact acaaaggata gtgcagaaca ctggggcttc aatgttggga gggcaattac	1190
cactgttgga gaagttactg gaatcagaag ggagctgtag ggaaagcccc acttcccagg	1250
agctgtagcc acagaatagg gaagctgcca catgcagcga ctccaaaggg tggaaactgg	1310
atmostgaat accomments attotoctor caccotocaa totoctgcta geacctocca	1370

#### FIG. 6B

ttggctgaac ecagctagaa gtcagagaat acaagggtc actgttgtat tccataaaag 1430
tcaacttctc agggctcaga gcaatattga catgtacaga atagatctgg agaggaaca 1490
gaaaatatct agtacaatag ctaatcactg tgattcatgc acagtgtat gagccagcag 1550
gatgaatatt ecttgetgt actgetgec agtcagctgg ttatgggttt ttccaagaaa 1610
tttggtctct aacaaaattc ttcagagcct ttactgacta tgetggatat ttttggaagg 1670
gateccatac ttttgaactt catacagcag aatttcaaac aatcttggga aaataacaac 1730
ttttatctgc ecagtaagga caactaacac etagtatcat aatcatttcg taagagacag 1790
gtaatttcat eacegagtge atat 1830

#### FIG. 7A

ctactgagaa gggatatact ctcagactaa aggacagtcc ctagtactga ttcaatctqq 60 ctttatagaa aattcactat attgtcattg tatttcacag tttgcccttt gtcttagctg 120 gtaagacaga gcctatgata aggacttgtg tggcatgcag gtatttaatt gqcaacccca 180 gagggcagaa gcaagagatt taggagttta agagagggta atataagagt atattatcaa 240 agttgtagtg tggacaacag aaactcaaat attcaaggac cagcatgtag acagcctcct 300 aagatgtota otoagacaaa gaatttoagg tggaaggaot tgttoatotg ottoacgooc 360 attggttgac aggaatatga actocattot gotgotgggc tagacatgca tgtgggctga 420 gtgagettte eccagtatee gtageateag aaaagtegea gggeagaaag aaaagtatee 480 aatttgaggt gaattactga cettgaagtg agtgtaagee taactagaat tetaceecag 540 ctggctgaag tgaaaggtga ggctgagagg aaataaggca ggactgcaca gtccccaatt 600 gtactgttca aatccactca tgcccttcat taagtcagct ctgccactga gccttccagc 660 tgggaggcag ccacaatoto tgcagaagat ttaatataca ccagtttgtg gaacaagctg 720 плипипипи плипипипи плипипипи плипипипи плипипипи плипипипи 1080 плятилить плитилить плитилить плитилить плитилить плитилить плитилить 1200 nnnnnnnnn nnnnnnnacc tgcagcactg ggatagccct ggtacagacg tagaacatgc 1320 ttgaggaggt tgtcaggagg aaatgagtta gaccttgcac agaactacca ccatcaagta 1380 cagttqqqqt qaqqcagaca tggtatgagt tgaggcatca gagatatctg atgctttatg 1440 ccaaattaaa attaatttt tcatggagtg acactgatcc acagaccaga ctccaagaac 1500 tttgcagtga ctaaataccc atctcatcat aactttcctg gtattttctt ctggaaaaaa 1560 ttcttccctg atacagtttt cagaggcagc tagatgcact gtcatctctc cccttttccc 1620

#### FIG. 7B

acttecetae etatecacaa tttactacee aatgecaaca etaaagttag eccaaettee 1680 ttctaactaa attattagtt tagaaggaaa gagaggagtc atgctaagga tcttaactgn 1740 nnnnggggag aggagggag aggaggtagg gaggggaaag aaagaaacta gaaatccatc 1980 aattttagga ccaacttcag gtaaaaaaat gaattaggca agttggtctt tcaacattct 2040 ctacctctct ttatatcatg gttgagacca cagacttctc acctcatgaa agatgaactc 2100 taactaatto atactaaago taaagootot aaagaggatt aaatatgago aatoocacga 2160 quactitttt cccctggaat tgtttattca actgtcgttc gttatatgga atttcctgcc 2220 tggttaagtg taggccagta ctttggatga attgtagttt tctagaaaga cgcttcttat 2280 ataagaacct ctccagggaa acaggggcct gtatgagatg aattgagaaa taactttaca 2340 ccactgatta tgtcagtgtt ctattctgca tggtagagat gtgaaagggc agactgacca 2400 ctcttcatgg aagccaacat ggcttactaa atagtcaaca accatgggag agacctgtgg 2520 ggtcttcatc agagctcagg atctcctagg gtatcactca taaatacagc catcagggag 2580 atggagaaat ctttgtgcag ccagaaattc tcaacctggt tttacccatc cttcccaact 2640 ttgtattcgt cctactgttt actgacatgg atcctctgct tcattaacca tcccttcctc 2700 accacatgct ctctqaactt ggctgcacct tttctacctc catgccttct ttgctcaggt 2760 ttttccacat aaatatcatt atttccctct ctactagctc caagcccacc ctctctctgg 2820 ggcageteag teactecagg geacaagggg gtettteeet cateecacat tttgagacet 2880 actacctgga ccatttgttt gccttgtaac tatgcttgcc tttttaattg ctattttatt 2940 ttccatgtat tttcattgtt cacacaagtc ttctttattc cacactaagg caaaagcaga 3000 gtcctgtgtt cataataagt gctcaacaaa tgttgggttg attgggttgg agattccatc 3060 ttagataatc gcagtcccat catgccagct accagactgt gtggacagcc aggtcagagc 3120 agccaaatga tattctagct tgtggcacaa ataccagcaa caaaataacc aaagtcacac 3180 atotgootot gagttootgg ottotattto toaagggoat tittaagttg tottatgact 3240

# FIG. 7C

jtteeettte	tactcattct	cacaaaccga	gccgcggacc	googogaeee		
ccggaagtca	atgtataaaa	caaacacgga	aacgaagagt	atggtgggtg	gagggtactc	3360
cactgactct	agaatggatg	actgaacatt	ccaaatttca	agcacaagtt	agggagcaac	3420
agatcatttt	ccttttgaaa	tagggtttct	tctgctcagc	cagttgttgt	attttcatta	3480
ggaaatggaa	tgggactaca	gcacaaaaaa	taaatataaa	aggacccttg	tagggctggc	3540
agaaaagaga	atccttccta	ggagacctgg	aggtgattcc	aggennnnnn	nnnnnnnnn	3600
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3660
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3720
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3780
nnntcagaaa	gtgtgcaaac	agtaaaaaaa	aatggtatat	ctagcaagtt	gcatgcctta	3840
cttgtgagtt	catgaagttg	tggcaaggat	aagacaaata	ttttttgcca	ttgcatcatt	3900
atatcattgc	taagagtatg	ccattattnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	3960
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4020
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4080
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4140
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	4200
nnnnnnnnn	nnnnnnnnn	nnnnttaatt	aattaaatta	aagaaacgac	aaaagagtat	4260
gcaagaattt	taaaacaact	tagaggaata	tgtatgagga	tacaggctaa	gctaccataa	4320
tgaagagacc	tcgaaataca	gtgagaagcg	agacagaagt	atctttcgtt	ccatgtaaca	4380
ctcaggtggt	tcagagcagc	taagcagcta	tgttccatag	agtcattcag	tgatccagat	4440
tattttcatc	tgttgctctg	ccattctcca	ggatgttgtc	cctataaaat	tgtcaaagct	4500
cagtcagtgc	caaacccatg	tttcaacctt	cagaaagtaa	acgagtggtg	gaaaacacat	4560
tcaatgtttt	aaggccaaga	ccttgaaaac	tcactctctt	agcctgaact	tagattacat	4620
ggctgggccc	acttaactat	aggggagget	tggaaacata	gtctctgaga	agccatgtgt	4680
ccagctaatt	ccctaatact	aaagttgaaa	gaaagaatgg	attaaccagc	agtataccac	4740
aaggtaacaa	atgactagga	ggatcaggct	aggtggacta	gaaaagagac	agtcaattca	4800
gtgcaacaat	tccatattga	cacttttcat	gtagctgttg	cttggctcta	tctagagagg	4860

#### FIG. 7D

actcagaggt agtttagata aggcctttgc cctccaaata cagtctaagc agactgattt 4920 cctactggat gttcaacttt ggagtettca gggatgagta gggettetgt acgtggaaga 4980 qactatgagg gaacctgcac aggacaaggg tttgcataaa gacactgagg tagggacctc 5040 tcctgttgtg gggacagtga gaggcccagg tctccttgac tcacaaagtg cttactaagc 5100 acttactaga aattaagaag cagattataa tcaatatggg ttatccaatg tttggatgag 5160 caaggeteet tatetttet tegttaatgt taateacact ettttggatg gagacaaata 5220 nnnnnnnnn nnggctcaga ctaaataatg tctaatctct tctccagtaa aacaatccgt 5400 ggttctcaga tagcactgtg ctggaggtag tggggtttga gggctgggaa gttgggagga 5460 ctgagccett cccgctgage agtttegtee agttttteet gtaccageet gteatgttta 5520 ttccatgtga atgactccag aggcaaaatt caagcttttg aatagggcac aaattaactt 5580 gagtaccett teattteeet gtaggtgaac acteetetag ceetgeettt tgteagtetg 5640 gagecettgt tetaatetgt acacaccaga ggaetttaca aggettteec cageetecag 5700 aattattett etgateeace etetaetaaa eteaecettt eeteagtget aggaegttga 5760 aaaaccgaaa caaggcaaag ggccaattgt aataattcac actaaggcat gagtgactag 5820 gtttagtata ttaacactac ctaggatatt ctatttcttc caaaaggatc ctgttaatcc 5880 ttgaaattta acaactaatg gtatagattc taagcactgt gagtacttgt cagtggggga 5940 aagacatttt tgggctgaga gactttgcca ctgnnnnnn nnnnnnnnn nnnnnnnnn 6000 nnnnnnnnn nnnaaaaaat aacatgagag nnnnnnnnnn nnnnnnnnn nnnnnnnnn 6120 nnnnnncaca gagctagccg tgttggctgt cacccactca tgtggccagc ctgttggtct 6360 acctettagt tgccatgtaa caggattetg gtgcttttcc tttgcccagg t cag atg 6417

## FIG. 7E

gaa ccc agg Glu Pro Arg	acc cat co Thr His P	ca act tgg co Thr Trp	ctg ctt cac Leu Leu His	att ttc atc ccc tcc Ile Phe Ile Pro Ser	6465 229
tgc atc att Cys Ile Ile	gct ttc at Ala Phe I	t ttc ata le Phe Ile	gcc aca gtg Ala Thr Val	ata gcc cta aga aaa Ile Ala Leu Arg Lys	6513 245
caa ctc tgt Gln Leu Cys	caa aag c Gln Lys L	g tat tct eu Tyr Ser	tca aaa ggta Ser Lys	aagtgag ttttattcat	6563 255
ggtaacccaa	tgcactgggt	gtctgcagca	tgagccactg	ctttgcactg caggcctatg	6623
gcttgctgct	ttcatgctaa	acccactcag	agcttatgaa	ccactttgag cttgtcttga	6683
tgattatttt	tccccagaag	aaaatggctc	tcatcgtcag	tgagctgaac ttcttacact	6743
gagttttta	aagggaatgt	tttgttctta	tgtctgaaag	agtttgtctt attctttgag	6803
ccaagagctt	tcatcagcct	catgagagtg	atgttatttt	ggcaatgcag agagctacgt	6863
gctccgattt	tgctggtggg	aggttgccag	gateetteet	gaggatteet tecattttea	6923
cccctctttt	ccccagtctg	gatatgacct	gggttaaacc	cacccctct cccaggaatc	6983
tcaacctcac	ggttgggtaa	ggaaaggaga	aaggtttgtg	aggccatttg gggataagga	7043
aacagctggt	tggtggtgca	ttaacgtctt	tcagcagctc	ccttcgagtt tctccttagc	7103
ctgttgtatt	cttaccaaca	cactcctgtt	ctgttgtacc	agctgggaca gagcatgctg	7163
aagcctttca	gccctgattt	cattgcttca	ttgttcatgt	gtctgtcttt ggtttcctgg	7223
gtggagcctg	cccacaaaac	ccccagaat	g tatgcaggcc	tagctggtgc tttcctaaac	7283
ggctcccttg	tctgcactca	atgaacttct	ccaaagatct	atacatggcc tcatctatag	7343
aaagagaaat	gacatgtgga	aataattca	g taggagtttg	cagcagcact atctgaggac	7403
taggggaatt	ttaagtggtt	gttatcttac	atttatactc	ataacttcta tattttcatc	7463
tgccataaaa	tattgtcatg	ttctatttgt	ccattgccct	atgtgtgtat gtattcactt	7523
gggtgctgac	cacaatattt	ctaactgtag	g aatgcaagga	attgttgcca aannnnnnn	7583
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn nnnnnnnnn	7643
nnnnnnnnn	nnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnncttca tggtaaagga	7703
ggaggtatgt	ccaacagaac	ttcgacttt	t aaatagaacc	acttcagaga gttgtgtcag	7763
gtgcacctca	gttgtcttat	cttctgcca	t tcttcttta	cctctcacac ccatacctca	7823
gggttcaagg	cctggggcct	gaggactcc	t taataacttc	agaaatgagc agctgagtgt	7883

#### FIG. 7F

tccgttccag ctgtctttgg gagaatggaa tggagtcaca ctcaaagata gagtggaaat 7943 aaatcctctc ctcatccttc accccaatct taagagtgag tgaggatatc agtagctccg 8003 agctgggagg taaagctcaa gttctaactg tgattaggag acctttctta caaataagaa 8063 ttaagtgaat aaatgtgcaa acaatttott ttatattttt aatgaaccag agagaaatca 8123 tggttgccta tataaccctt gtctccaact cacttgcatt cagatctgct ttcttacatg 8183 tgtctgccat gcacacaaac ttgtgtgcca tggaaaaggg ttgagaactg ctggtgatgc 8243 плипипипи плипипипи плипипипи плипипипи плипипипи плипипипи 8363 nnnnngcagc aagagaagga acattttaca gcttattggc cgaacttcac tgccgctagt 8423 gtggttcaac ttggactaca gagaaatett ectaactggt tteeetgtat teaeteetge 8483 tacctccaac ttggtctgtt ctcacttttt gctataatag gcttttaaaa atcataaatc 8543 taccatgtgt cetetgteca gacettetee atggettett attgeteact ggatgaagtt 8603 ccaacgagec caggatggtt tgactcatgt ctccagettt aactgcatca ccatcacett 8663 cattgtctaa agctctaacc acacaggatt ttctagtcct cagaggcatg gcagtctttc 8723 aattccgagt tttctcatac aatattgtct cttcttaaaa tatttttct tgttgtccac 8783 ctgagttgga gtcatctttt aaatctcagc taagcttata cttcatcaag tctttcctaa 8843 ttctacctcc acgcaccaca cccattacat taaatcccct tattatatgt ttccatagca 8903 cctactttct tcttttcagt atactcagca cacaatcaca tgtctaggat ctgttttaat 8963 agottggact accaattaaa ttgcatccct tttaattgtc cattgattcc tcaagtaccc 9023 acatgeecat ettageaaga agtteagtgt etceetetta tageatgtae tteteeacet 9083 cccacaaact gccagaaagc ttacttagcc cacagggcca gtgctaggca gctaggttag 9143 tectecagag ggeeetggtt ttgageagtt getgtetact eeggeeatge agaatetetg 9203 qtccttccag atgtctccat ccactgtgca aaggtaacct tgctggttcc gatccccaca 9263 cagaccacag tgctacaaga ttacagttct tatggtteec caacacatge tetgteattg 9323 gtcccaaagc aggaccccta tgggttgatg aggtaggagg aggtccctgc cttagccaca 9383 getgeacaca gecageetet teeettetag geeeteatgt tgageetggg acgecagtee 9443 taacttoott etettoagtt eetettaggg ecattggtat eetgaattte ttagteeatt 9503

#### FIG. 7G

qcaaaqttaa gtaaagaaqc agcaggcttg gtccctttcc ttccagatgg cttcttagct 9563 cctgaacaga tttacccacc tatacctcag tgactagctc tgtgtactaa agtgtattgg 9623 gagggcagcc attattggtc cataaaaggt cctgcttacc attttcccct aagaggaacc 9683 attcaacagt ttggggctcg agggtgacct gctgggctct agagaagaag ctggcaactt 9743 ctgttgcaaa ataatgttaa attctgcttc atctgcttgt cttnnnnnnn nnnnnnnnn 9803 nnnnnnnnn nnnnnnnnn nntaaacatt gaacctacta tatgcaggtg agtatgctag 9923 плипипипи принципипи принципипи принципипи принципипи принципипи 10103 применения nnnnnnnnn nnnnnnnnga tttgaataca ggtctgtttg actccaaaac ttgtggccta 10283 tttgttgcaa aagtgcttaa tacaaattgg ttcagtcaat attattatct ttgaacaatg 10343 gaaggagaaa gtaagtttca atccaaaata attgagtgac ttatacattg acttgctgag 10403 ccaatggcaa agtcaagtta gaatccagca gaagtcacca gctacagaat ctagatcttt 10463 agaacatgtc ttcagatctt cagaacagtg tttcttaaac tctcttgtga aggaacagtt 10523 atcatcatag gctggtaaca gttcacctac cagcaccagc ccatgaacca gactctaagt 10583 ggcacagccc tagaagattg agccagaatt ttacagaggt ttaaagacca aatatgctgg 10643 tttatggtta cctgtggccc acagagaatg gcagcactaa cctcaggcat aaatgaggta 10703 cccactgaag ccaacattca agagcaattc ctatgggtta accattgggc tcctttcaaa 10763 tgcaaaccct catgaaagag actacagtgc tgaatagaga cctccaaatt ccaggccaag 10823 ctcaggatag tcatgaggga attactaaaa acctggtata tagggcaaaa gcagaattag 10883 gaatggactg atttcaggaa cccaggcaat ggcaggagtt gggcattaaa tcctaaaaga 10943 qaatcagagt gggagggaat atgtgaaatc agaggttaag aaaaaagtga aaacctnnnn 11003 

#### FIG. 7H

nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11183
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11243
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11303
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	11363
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	11423
nnnnnnnnn	nnnnnaaaaa	attaaaagaa	agatgtgaaa	tcaaggaaac	ttactggtga	11483
gcagcatccc	attatgtgaa	cttgtgcttc	tgaaccagta	acttgagtta	ctttgagcca	11543
gtatcagtca	cttatacctt	agtgcaaaat	taattgatca	gacattctga	cctggaccag	11603
ggaaggcagg	cagaagtagc	agtcaagact	aaagcagaaa	agggagagct	aattctgcag	11663
ccagacattt	cctggattga	atacccaaat	tagtccctca	gcctttaagt	gcctgagggc	11723
caggagtaga	cagaggaatg	gaaagtgtga	gacttctttg	ttcacactct	ttgcctaggg	11783
gccagatttt	gctttatgca	ttaccatccg	aagtcccagg	ccacagtgaa	catttgggct	11843
tegetatgtg	gatttattta	gatttacttt	ttgtcctgcc	atattttaat	ctataagcca	11903
aacagttttc	tcattaatct	tattccattt	ctggaatttt	teettttea (	gac aca aca Asp Thr Thr	11961 258
aaa aga cc Lys Arg Pr	t gtc acc a o Val Thr T	ca aca aag a nr Thr Lys i	agg gaa gtg Arg Glu Val	aac agt gct Asn Ser Ala	: a	12003 272
gtgagtaagc	atgatttta	cttttctttc	ttactttctt	ttetetetea	gcttgaattt	12063
taaagtaacc	actgttctat	taattcatgg	aaggcaactg	aatagttcca	gcttatagaa	12123
tcttcctgtt	tggtagcatt	tcagcgaagc	ctcgttctta	gccccagaac	aatcatgcca	12183
tcttttgctc	ggtctatatt	cctaagcact	cctagatgat	actgcactgg	acctctggtc	12243
tcacatagtt	agaaacagag	ttaaaatcga	acagcaaaga	gaagatattc	aactgcgatg	12303
caattgacaa	tggatgtttt	tgcaacaaac	aatgattaag	aagtacattg	ttgtgggctc	12363
tgagtcaaga	gtaatatggg	aaaaacacaa	gtctcttcat	gaggttgaca	ggtttggagc	12423
tggaatctgt	ggaggaggaa	ggatatgatc	taggggtcag	aagaagtggg	ttactaaaat	12483
cattaagcct	ggttggatga	aaagcttaga	ctcaggggaa	gcagnnnnnn	nnnnnnnnn	12543
nnnnnnnnr	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	12603
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	12663

## FIG. 7I

nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	minimi	111111111111111111111111111111111111111		12,25
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	nnnnnnnnn	12783
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	12843
nggcaccaag	agatgagggg	ggcagtcttg	gccatatatt	tggctgaagt	aagtcaattt	12903
gtcattcctg	catgagcctt	tataaacaga	agtaagtaac	caactactat	ttggtcattg	12963
gagttgtcca	agaggccagg	gttctgtcta	atacctgttc	atgcatgaac	atgccaacct	13023
agattgcatg	cagactacca	gttttgggtt	tttgtttagt	tcagcaggat	ttttctcagc	13083
tcactgcctc	tcaaactttc	agcaacaaaa	ggacatctgt	gatatcagaa	tctaccactc	13143
taagtatttg	gatgcaatag	caatgaatat	ctgagtaaat	ctaggtgggg	agtgggggca	13203
ccctgtagcc	aaaatgattt	aacaaaatca	aaccaaaatt	ttggaaatga	tgccttggta	13263
caatgaagag	actacttgag	gtaggtttga	cttatctaat	atcttatttt	ctttaccaat	13323
acctaatgag	gaatttaaat	atttctagat	agctttggaa	aggtccctta	aagaggcacc	13383
agcataccac	tgccagatct	aatcccccca	aacactgttt	tcatcatcat	catgtcatct	13443
cttgtctcta	tagatcatat	caaatccttc	ccagagtttt	tcaggccttt	tgacaactag	13503
ccacatttca	ctaagccaac	tcatctacca	ctcttcaaca	aaacttttcc	tcaagttgag	13563
ctgctccacc	aacaccactg	ccatgagctc	attcccactt	ctgtggcttt	gctcatgttg	13623
gttattttt	tggagtgtcc	tecetattee	ttcttacttg	teccaatece	aacttttggc	13683
atggtctact	ttaagataca	gtaatgagta	actttannnn	nnnnnnnnn	nnnnnnnnn	13743
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	13803
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	13863
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	13923
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	tttttaaaat	ttaattcaan	13983
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	14043
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	14103
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	14163
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	14223
		nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nntacataca	14283

#### FIG. 7J

caacactete ttgettaate tgtaagacte tetececcae teatacettt ttattttee 14343 totgoattgt acacacaatc tataccactc ttaagcacat gattacagcg ttattttctg 14403 gctgcttcta tgtgtctata ttttaggtcc acctggtcaa tataataaag tgggatatta 14463 gtgttaatgc aactatatgg tatttgatat ttgtctttct gtccgtttat caatgtttct 14523 tatagnnnnn nnnnnnnnn nnnnnnnngg tgtctgattt tgaccaaatt tgactaaata 14583 cnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnngt tgagtctatc aactcaaaaa 14643 agaataacct acaacaataa caagtttcag aacatttttt aaattactga ttttatgagn 14703 gaaattgcca tggttaagat tttaatattg ctcaggccca gacagctcag ggctttgaca 14823 ttoccacaco cattototgo catoccagtt ctatotoato ccaaaaccat ccattatgag 14883 gagagtgtac agctetagge tgcccgggag ccatcccgca ctctcatttt gtgactcggc 14943 atcttgggag atggagtett gggacttage etggacatgt ecettgcatg tacttettae 15003 aagactttta ttcagatgaa tattttccct tccaacttaa gaagcacagg gcttgctggt 15063 tttgcttcac taaccagcaa ctgaagcaag acctgacttg tgaaaatgcc taatagagtt 15123 cagtattage getgtttcac cattteetgg atctettgcc tttgtgcaca tgatagaatt 15183 gcacttctct gtgattaatt tgtagttaag tgtggtcatg taactcgctt tggtcaatta 15243 aatgtaagca taagtgatgc gtgttatttc tgggtagaag atgtaagagt tggcatatgc 15303 tttgccatat tttctttatc catctggcat ggtaaccagt aacattctag gtagtaattg 15363 ctccatcagt ctcagtctct gagtgactaa aattgacaga gtcccctgct gaccctcaat 15423 gtacatggaa catgaacaag aataagcttt tgttttttat attgagattt tggagttgtt 15483 tgttcctaca gcattaccta gtttactcta atacaacatg gaaaaaactg gaacctataa 15543 taaatagacc ctacgttgcc atttaaactt ctagttctga ggaataataa tgtggggaaa 15603 tactttctat ataataaaaa aatagaaaat tgcaaaataa aaatatactt atgtatcatt 15663 catgtcctat taaaaatgtt atttatagac tcaccatatt cccttcctcc agaaaaatag 15723 aagtaaaaat atgaaaatgc ctgtaatcat gtttttggat tatggaatca agtattgctt 15783 tttactttta tgttttctga atttttgttg tacttcacta catttttgag tgccctgatg 15843 tattactttc aaaaagaaga agaatacttt ctgaagccat ttcaaccatc cccactcacc 15903

## FIG. 7K

ccccagacc	ccagcaacca	aacaoaccao	avaggaver			
taggaagggc	gatgctatac	cttctttaaa	ggacacctac	caatgtctta	gttgcctttc	16023
aaagactcct	agcacagcta	aatgtgatgg	atatgctcta	aggatataag	agctgaagtg	16083
acttgcataa	ggtcatatca	taacttactg	ttagaaatgg	agctagaact	cagacccact	16143
gagtccttgt	ctgtgacaca	ctgccctttc	catttgtgga	agttgttctt	gtatctaact	16203
ttatctgtgc	tactatttgg	gcctagccat	tctccctctt	atgcagacaa	gcagataaac	16263
agtaaaactt	taggagtgga	ttatgatacc	atagatatat	atcatctatc	ctttacaaaa	16323
tagttattac	agtcatcaag	ccttggttag	agtttacaga	ccatgtatcc	tagctannnn	16383
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnntgaaaca	16443
gtagcagacc	aaaagaagtc	atgattccca	gcatagtgct	nnnnnnnnn	nnnnnnnnn	16503
nnnnnnnnn	nnnnaaacct	gtattaagtt	tctgttattt	gcaagaccct	gtcagttagg	16563
ccatgtggga	actagaagga	tgaatttatc	agtcatccaa	gattcttaca	attaagtatt	16623
accgataagg	tactcaagaa	acagttctca	ttcacataat	ttgggttaaa	acaaaaagaa	16683
gccagctttc	tatatacttt	tggtccagtc	tttacgtttt	ttgttttgtt	ttgtttgttt	16743
tcatgagtat	cccgacttcc	ttctaagaac	ttccacctga	gaactgacca	cagcgtcagc	16803
attccacatg	ggtgtgtttc	ctttcccctt	teccatttea	gtggtttcca	atttcttttt	16863
cttttggcac	tataaacctt	tcgcaaagga	aatattagac	agaactccta	catgtcaagc	16923
aaattaaaat	agtggtgaaa	ttagagtgga	ggacataatc	accetateat	ataggctatt	16983
tgtccatatc	atatttgtcc	ctacaaaggc	ctctaaggnn	nnnnnnnnn	nnnnnnnnn	17043
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17103
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17163
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnn	nnnnnnnnn	17223
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17283
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	17343
nnnnnnnnn	nnnnnnnnn	nnnctctaag	ataccttgtg	cttcttggaa	catatttgga	17403
aaatcatgta	gctctcaaat	tatccctatg	teetgaagee	caccttacca	tcaatcctca	17463
~~~~t~~~	accest at ca	ggcaacttca	cactttcttt	cttcaggcag	cacagttgtc	17523

FIG. 7L

tcagggaggg aggagagtgc tattagcaag aggagtcact aacagcttca ctcacctgtg 17583 cccatgaatt tttaatggtg tgaaaagtct gtgtattttt tatggttctc tatggctcat 17643 ataagaggga caaacaatac atgaaagttc agagatgggg acaaatatca ctttaagctg 17703 qqqataatca gggaagaaga aagttttcat ggagaaggtg acttttgaat caggaagaaa 17763 tggaaacagc aaactcttct agatagagga gacactaaca ggaaaqqcag agaqqcagga 17823 aggtgtggga aagtgcacgt gaccccgttc agagagaaag ccaggtgtga gataaggggg 17883 aaagactgtt agggcatgta ttgtaaacca ctaattccag gcaaaagtta gattttactt 17943 actaagcaag agtgcttcag ttagatccta gcaggaaatg gagggtatgc ttagaagagg 18003 taactgaggc aagtttaatt tataaaggtg tgtgcagcat taagggaaac cagcaaggga 18063 tactgagcat gccaggatgc aagagcaggc agggaaggtg actattccta ggtctgaagg 18123 agaaagggga gggagcagtt cccagaaccc tagtaaaaat ggcaatgaga aaggtccatc 18183 tggcaggacc tatggtcttt aacagaggga caaagtcaac ccacaacttg tctgggaggt 18243 tgctgaggaa tagatacecc aacctetete teaacceact gcaacactet tttteeceta 18303 gactgagece agteaaagac agagggagga geceagtgat geagtetgea atgteateat 18363 cctggagcat gaatagagtg cagcagggtg aataatgagt ctgcaggaat taatagaaat 18423 atctgacaca atagggaact ataagaggtt ttgaatagga gaggcccctg aaatgtgctc 18483 caatattact gaactatgtg tggcccaaag aatggaagag gaacagctct tgcaataggt 18543 ctgaggagag aagctgaaga cttggactag ggcaatggta aaaactgtgg aaagaagttt 18603 taaatgaaaa gttttaaacc atgcggcttc cagctagatg aacttttta aaaaaattag 18663 ttcctcactc aaattttggg gaggttatat attttctaat cataaaaaat gatttttctt 18723 atttgtgggc ttttctcccc ag atc tga acctgtggtc ttgggagcca gggtgacctg 18781 atatgacatc taaagaagct tctggactct gaacaagaat tcggtggcct gcagagcttg 18841 ccatttgcac ttttcaaatg cctttggatg acccagcact ttaatctgaa acctgcaaca 18901 agactageca acacetggee atgaaacttg eccetteact gatetggaet cacetetgga 18961 gcctatggct ttaagcaagc actactgcac tttacagaat taccccactg gatcctggac 19021 ccacagaatt ccttcaggat ccttcttgct gccagactga aagcaaaagg aattatttcc 19081

FIG. 7M

cctcaagttt	tctaagtgat	ttccaaaagc	agaggtgtgt	ggaaatttcc	agtaacagaa	19141
acagatgggt	tgccaataga	gttattttt	atctatagct	tectetgggt	actagaagag	19201
gctattgaga	ctatga					19217

FIG. 8

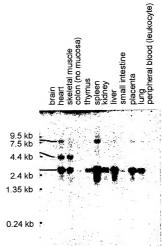


FIG. 9

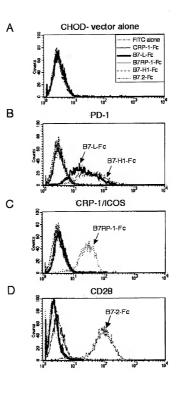


FIG. 10

